



# **COMMONWEALTH of VIRGINIA**

Molly Joseph Ward  
Secretary of Natural Resources

## **DEPARTMENT OF ENVIRONMENTAL QUALITY**

### **Blue Ridge Regional Office**

[www.deq.virginia.gov](http://www.deq.virginia.gov)

David K. Paylor  
Director

Robert J. Weld  
Regional Director

**Lynchburg Office**  
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Lynchburg, Virginia 24502  
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**Roanoke Office**  
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Roanoke, Virginia 24019  
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Fax (540) 562-6725

March 7, 2014

Mr. Michael C. Callegari  
Manager, Environmental Compliance  
Transcontinental Gas Pipeline Company, LLC  
2800 Post Oak Blvd  
Houston, TX 77056

Location: Mecklenburg County  
Registration No.: 30860

Dear Mr Callegari:

Attached is a renewal Title V permit to operate your facility pursuant to 9 VAC 5 Chapter 80 of the Virginia Regulations for the Control and Abatement of Air Pollution.

This permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and civil penalty. Please read all conditions carefully.

This approval to operate does not relieve The Williams Companies, Inc., Transcontinental Gas Pipeline Company, LLC of the responsibility to comply with all other local, state, and federal permit regulations.

Issuance of this permit is a case decision. The Regulations, at 9 VAC 5-170-200, provide that you may request a formal hearing from this case decision by filing a petition with the Board within 30 days after this permit is mailed or delivered to you. Please consult that and other relevant provisions for additional requirements for such requests.



Additionally, as provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date you actually received this permit or the date on which it was mailed to you, whichever occurred first, within which to initiate an appeal to court by filing a Notice of Appeal with:

Mr. David K. Paylor, Director  
Department of Environmental Quality  
P. O. Box 1105  
Richmond, VA 23218

In the event that you receive this permit by mail, three days are added to the period in which to file an appeal. Please refer to Part Two A of the Rules of the Supreme Court of Virginia for additional information including filing dates and the required content of the Notice of Appeal.

If you have any questions concerning this permit, please contact Dave Skelly at (434) 582-6235.

Sincerely,

  
 Robert J. Weld  
Regional Director

RJW/DJS/30860VR.PDS

Attachments: Permit  
NSPS, Subpart GG  
NSPS, Subpart JJJJ

cc: OAPP (electronic file submission)  
Chief, Air Enforcement Branch (3AP13), U.S. EPA, Region III  
Manager/Inspector, Air Compliance



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### Federal Operating Permit Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1, of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-300, of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name: Transcontinental Gas Pipe Line Company, LLC  
Mailing Address: 2800 Post Oak Blvd.  
Houston, Texas 77056  
Facility Name: Compressor Station 167  
DEQ Registration Number: 30860  
Facility Location: 1950 Chaptico Road, one mile north of South Hill, VA  
in Mecklenburg County  
Registration Number: 30860  
Permit Number: BRRO-30860

This permit includes the following programs:

### Federally Enforceable Requirements - Clean Air Act (Pages 3 through 21)

October 28, 2013  
Effective Date

October 27, 2018  
Expiration Date

  
Regional Director

March 7, 2014  
Signature Date

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## Facility Information

### Permittee

Transcontinental Gas Pipe Line Company, LLC  
2800 Post Oak Blvd.  
Houston, TX 77056

### Responsible Official

Michael C. Callegari  
Manager, Environmental Compliance

### Facility

Compressor Station 167  
1950 Chaptico Road South Hill  
Mecklenburg County

### Contact Person

Ray Terrazas  
Senior Environmental Specialist  
(713) 215-2653

**County-Plant Identification Number:** 51-117-0050

**Facility Description:** NAICS 486210 – SIC Code 4922 – Transcontinental Gas Pipe Line Company, LLC (Transco) is an interstate natural gas transmission company. Transco's 1,900-mile pipeline system transports natural gas from production areas in the Gulf Coast region to customers along the eastern seaboard. Transco's compressor stations are used to compress and move the gas along the system. Station No. 167 is one of twelve facilities which make up the Charlottesville Division. Operations at Station No. 167 began in 1991. This facility does not produce any other goods or services beyond natural gas compression, and does not include glycol dehydration or natural gas storage. The process consists of natural gas entering the facility at a pressure in the range of 500 to 650 pounds per square inch (psig). Onsite compressors then boost the pressure of the gas to approximately 800 psig for transmission along the pipeline downstream of the facility. Each of the two gas compressors is driven by a Solar Centaur T-4500 natural gas-fired combustion turbine (turbine). All yard piping, including the pigging and filtering equipment, and most of the other equipment in natural gas service (e.g., compressors, engine fuel gas systems, and gas meters) must be depressurized during maintenance. The upstream piping located on site includes scrubbers and pig receivers. The on-site downstream piping includes pig launchers. The natural gas lines are depressurized through a silencer. Venting activities are intermittent and are only performed during scheduled maintenance-related activities and upset/emergency situations. In September 2013, Transco installed a 150 kW emergency electrical generator at this site.

## Emission Units

Equipment to be operated consists of:

### Significant Emissions Units

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	Applicable Permit Date
M/L1	01	combustion turbine, Solar Centaur T4500, 1991	40.44 Million BTU/Hr	none	July 16, 2008
M/L2	02	combustion turbine, Solar Centaur T4500, 1991	40.44 Million BTU/Hr	none	July 16, 2008
IA 14	IA 14	Eaton/Generac EGEN150, 4 cycle, lean burn, spark ignited, lean burn internal combustion engine (4SRB-ICE) natural gas-fired emergency electric generator, 2013	231 HP	catalytic converter	none
FUGS	fugitive	Facility-wide piping components (valves, flanges, etc), engine crankcase vents, compressor leaks, and pipeline blow downs, 1991	N/A	None	July 16, 2008

\*The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

## Fuel Burning Equipment Requirements - (Ref. M/L1, M/L2)

### Limitations

1. **Emissions Control** - NO<sub>x</sub>, CO, and VOC emissions from each turbine (Ref. M/L1, M/L2) shall be controlled by equipment design and operation. The turbines shall be provided with adequate access for inspection.  
(9 VAC 5-80-110 and Condition 2 of July 16, 2008 Permit)
2. **Fuel** - The approved fuel for the Solar Centaur turbines (Ref. M/L1, M/L2) is natural gas. A change in the fuel may require a permit to modify and operate.  
(9 VAC 5-80-110 and Condition 8 of July 16, 2008 Permit)

3. **Fuel** - The natural gas shall meet the specifications below:

#### NATURAL GAS:

Maximum sulfur content (weight): 0.01 %

(9 VAC 5-80-110 and Condition 10 of July 16, 2008 Permit.)

4. **Fuel Throughput** - Each Solar Centaur turbine (Ref. M/L1, M/L2) shall consume no more than  $374 \times 10^6$  cubic feet of natural gas per year, calculated monthly as the sum of each consecutive 12 month period.  
(9 VAC 5-80-110 and Condition 9 of July 16, 2008 Permit)
5. **Emission Limits** - Emissions from the operation of each of the Solar Centaur turbines (Ref. M/L1, M/L2) shall not exceed the limits specified below:

Sulfur Dioxide	0.4 lbs/hr	1.8 tons/yr	(9 VAC 5-50-260)
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Nitrogen Oxides	166 ppmvd at 15% O <sub>2</sub> and ISO ambient conditions		
(as NO <sub>2</sub> )	22.0 lbs/hr	96.2 tons/yr	(9 VAC 5-50-260)

Carbon Monoxide	6.3 lbs/hr	27.6 tons/yr	(9 VAC 5-50-260)
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Volatile Organic Compounds	1.4 lb/hr	6.1 tons/yr	(9 VAC 5-50-260)
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(9 VAC 5-80-110, 40 CFR 60.332, and Condition 12 of July 16, 2008 Permit)

6. **Visible Emission Limit** - Visible emissions from each of the Solar Centaur turbine (Ref. M/L1, M/L2) exhaust stacks (Ref. 01, 02) shall not exceed 5 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A).  
(9 VAC 5-80-110 and Condition 13 of July 16, 2008 Permit)

## Monitoring and Recordkeeping

7. **Fuel Monitoring** - Fuel monitoring of the nitrogen content shall be conducted in accordance to the provisions of 40 CFR 60.334.  
(9 VAC 5-80-110 and Condition 5 of July 16, 2008 permit)
8. **Fuel Monitoring** - Fuel monitoring of the sulfur content shall be conducted in accordance to the provision of 40 CFR 60.334.  
(9 VAC 5-80-110 and Condition 6 of July 16, 2008 permit)
9. **Fuel Monitoring** - The permittee shall furnish written notification to Blue Ridge Regional Office of the specific fuel monitoring program and schedule, as approved by NSPS Subpart GG. Such notification shall be made within thirty (30) days after any changes in monitoring and shall include identification of monitoring program. Additional details of the notification should be arranged with the Blue Ridge Regional Office.  
(9 VAC 5-80-110 and Condition 7 of July 16, 2008 permit)
10. **Visible Observations (VO)** - The permittee shall perform visible emissions observations (VO's) on each turbine's exhaust stack (Ref. 01, 02) according to the following unit operating times listed in the following schedule:

Operating Schedule / History	Observation Frequency
< 20 hrs/year	No evaluations required
20 hrs/year < operated < 200 hrs/yr	Once per year
Hours Operated > 200 hrs/yr	Once every 200 hours

The presence of visible emissions shall require the permittee to:

- a. take timely corrective action such that each of the Solar Centaur T-4500 turbine (Ref. M/L1, M/L2) exhaust stack (Ref. 01, 02) with visible emissions, resumes operation with no visible emissions, or,
- b. conduct a visible emission evaluation (VEE) on each of the turbine's (Ref. M/L1, M/L2) exhaust stacks (Ref. 01, 02), with visible emissions, in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six (6) minutes, to assure visible emissions from each turbine (Ref. M/L1, M/L2) exhaust stack (Ref. 01, 02) are five (5) percent opacity or less. If any of the observations exceed the opacity limitation of five (5) percent, the observation period shall continue until a total of sixty (60) minutes of observation have been completed. Timely corrective action shall be taken, if necessary, such that each turbine (Ref. M/L1, M/L2) exhaust stack (Ref. 01, 02) resumes operation within the five (5) percent opacity limit.



- c. The permittee shall maintain a stack observation log for each of the turbine (Ref. M/L1, M/L2) exhaust stacks (Ref. 01, 02) to demonstrate compliance. The logs shall include the date and time of the observations, whether or not there were visible emissions, the results of all VEEs, any necessary corrective action, and the full name of the observer. If a turbine (Ref. M/L1, M/L2) has not been operated for any period during the month it shall be noted in the log book.

(9 VAC 5-80-110 E and 9 VAC 5-80-110 K)

11. **Stack Testing** - At a frequency not to exceed five years and upon request of the DEQ, the permittee shall conduct a stack test for NO<sub>x</sub> from a turbine's (Ref. M/L1, M/L2, alternating between units) exhaust stack, using Reference Methods 7E (reference 40 CFR 60, Appendix A) or alternative test methods as approved by the Blue Ridge Regional Office, to determine compliance with the ppmvd and hourly NO<sub>x</sub> emission limits contained in Condition 5. The tests shall be conducted and reported and data reduced as set forth in 9 VAC 5-50-30. The details of the tests shall be arranged with the Blue Ridge Regional Office. The permittee shall submit a test protocol at least 30 days prior to testing. Two copies of the test results shall be submitted to the Blue Ridge Regional Office within 60 days after test completion and shall conform to the test report format enclosed with this permit.

(9 VAC 5-80-110 E and 9 VAC 5-80-110 K)

12. **Recordkeeping** - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

- a. Annual hours of operation of each Solar Centaur turbine, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
- b. Annual consumption of natural gas in cubic feet for each Solar Centaur turbine, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
- c. All fuel monitoring reports and notifications.
- d. The equations, emission factors, origin of emission factors, and all supporting documentation for criteria pollutant emissions.
- e. Scheduled and unscheduled maintenance, and operator training.

- f. Results of all stack tests, visual emissions examinations (VEE), periodic monitoring, and performance evaluations.
- g. Other records as required by NSPS Subparts GG and A.
- h. Copies of all notifications required by Conditions 40, 41, 42, and 43.

These records shall be available for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110 and Condition 14 of July 16, 2008 Permit)

### **Reporting**

- 13. The permittee shall submit written reports in accordance with General Conditions 40, 41, 42, and 43.  
(9 VAC 5-80-110)

### **Emergency Electric Generator Requirements - (Ref. IA 14)**

#### **Limitations**

- 14. The 4SRB-ICE powered emergency generator engine (Ref. IA 14) shall be operated in accordance with 40 CFR 60.4243(d). Operation not in accordance with 40 CFR 60.4243(d) shall make the engine subject to the non-emergency requirements. Operation of a non-emergency engine powered electric generator may require a permit to modify and operate pursuant to 9 VAC 5-80 Article 6.  
(9VAC5-80-110, 9 VAC 5-80-1100, and 40 CFR 60.4243(d))
- 15. The 4SRB-ICE powered emergency generator engine (Ref. IA 14) shall be certified to the emission standards in 40 CFR 60.4233(e) for the same model year and maximum engine power. The 4SRB-ICE must also meet the requirements of 40 CFR Part 1068, as applicable. The engine must be installed and configured according to the manufacturer's specifications.  
(9VAC5-80-110 and 40 CFR 60.4233(e))
- 16. The approved fuel for the 4SRB-ICE powered emergency generator engine (Ref. IA 14) is natural gas as defined in 40 CFR 60.4248.  
(9VAC5-80-110)

17. Emissions from this 4SRB-ICE powered emergency generator engine (Ref. IA 14) shall not exceed the following limits:

Pollutant	NSPS emission limits <sup>Note a</sup>	g/HP-hr	ppmvd @ 15% O <sub>2</sub>
SO <sub>2</sub>	Pipeline quality natural gas with 0.01% fuel sulfur content (weight)	N/A	N/A
NO <sub>x</sub>	Table 1, 40 CFR 1068, and 40 CFR 60.4233(e)	2.0	160
CO	Table 1, 40 CFR 1068, and 40 CFR 60.4233(e)	4.0	540
VOC	Table 1, 40 CFR 1068, and 40 CFR 60.4233(e)	1.0	86

<sup>Note a</sup> either g/HP-hr or ppmvd, but not both limits

(9VAC5-80-110 and 40 CFR 60.4233(e))

18. The permittee shall operate and maintain the 4SRB-ICE powered emergency generator engine (Ref. IA 14) and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners and operators may only change those settings that are permitted by the manufacturer.  
(9VAC5-80-110 and 40 CFR 60.4243(a))

### Monitoring and Recordkeeping

19. At least one time per calendar month an observation of the presence of visible emissions from the emergency electric generator (Ref. IA 14) exhaust stack when this emission unit is operating (i.e., routine testing/maintenance). The presence of visible emissions shall require the permittee to:
- take timely corrective action such emergency electric generator (Ref. IA 14) exhaust stack resumes operation with no visible emissions, or,
  - conduct a visible emission evaluation (VEE) on the emergency electric generator (Ref. IA 14) exhaust in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) for a minimum of six (6) minutes, to assure visible emissions from the exhaust stack are twenty (20) percent opacity or less. If any of the observations exceed the opacity limitation of twenty (20) percent, the observation period shall continue until a total of sixty (60) minutes of observation have been completed. Timely corrective action shall be taken, if necessary, such that the emergency electric generator (Ref. IA 14) resumes operation within the twenty (20) percent opacity limit.

The permittee shall maintain a stack observation log for the emergency electric generator (Ref. IA 14) exhaust stack to demonstrate compliance. The logs shall include the date and time of the observations, whether or not there were visible emissions, the results of all VEEs, any necessary corrective action, and the full name of the observer. If the emergency electric generator has not been operated for any period during the month it shall be noted in the log book.

(9 VAC 5-80-110E)

20. The permittee shall install a non-resettable hour meter prior to startup of the 4SRB-ICE powered emergency generator engine (Ref. IA 14) per 40 CFR 60.4237(b). The reason for operation and length of time operated shall be recorded in a log.  
(9VAC5-80-110 and 40 CFR 60.4237(b))
21. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:
  - a. Records to demonstrate the purchased 4SRB-ICE powered emergency generator engine (Ref. IA 14) was certified in compliance with 40 CFR 60.4343(b)(1).
  - b. A copy of each notification and report submitted to comply with 40 CFR 60 Subparts A and JJJJ.
  - c. Records of the occurrence and duration of each malfunction of 4SRB-ICE powered emergency generator engine (Ref. IA 14) or any air pollution control and monitoring equipment.
  - d. Records of all required maintenance performed in compliance with 40 CFR 60.4245(a)(2) and 40 CFR Part 1068, Subparts A through D.
  - e. Records of actions taken during periods of malfunction to minimize emissions, including corrective actions to restore the malfunctioning engine and air pollution control and monitoring equipment to its normal or usual manner of operation.
  - f. Records of annual hours of operation for routine maintenance and testing, emergency demand response, and electric power interruption for the emergency generator engine (Ref. IA 14) to qualify for the emergency stationary ICE provisions of Subpart JJJJ per 40 CFR 60.4243(d).

These records shall be available on site for inspection by the DEQ and shall be current for the most recent (5) years.  
(9VAC5-80-110, 40 CFR 60.4243, and 40 CFR 60.4245)

## **Reporting**

22. The permittee shall submit written reports in accordance with General Conditions 40, 41, 42, and 43.  
(9 VAC 5-80-110)

## **Process Equipment Requirements – (FUGS)**

### **23. Reporting**

The permittee shall submit annual VOC emissions (in tons) for facility-wide fugitive emissions, using calculation methods approved by the Blue Ridge Regional Office.  
(9 VAC 5-80-110)

### **24. Recordkeeping**

The permittee shall maintain information sufficient to calculate actual emissions (VOC and HAPs), and copies of all reports and notifications required by this permit.  
(9 VAC 5-80-110)

## **Facility Wide Conditions**

25. **Emissions Testing** - The permitted facility shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. Sampling ports shall be provided when requested at the appropriate locations and safe sampling platforms and access shall be provided.  
(9 VAC 5-80-110 and Condition 15 of July 16, 2008 permit)

26. The permittee shall, upon request of the DEQ, reduce the level of operation or shut down a facility, as necessary to avoid violating any primary ambient air quality standard and shall not return to normal operation until such time as the ambient air quality standard will not be violated.  
(VAC 5-80-110 and Condition 21 of July 16, 2008 permit)

27. **VOC Work Practice Standards** – At all times the disposal of volatile organic compounds shall be accomplished by taking measures, to the extent practicable, consistent with air pollution control practices for minimizing emissions. Volatile organic compounds shall not be intentionally spilled, discarded in sewers which are not connected to a treatment plant, or stored in open containers, or handled in any other manner that would result in evaporation beyond that consistent with air pollution practices for minimizing emissions.  
(VAC 5-80-110 and Condition 4 of July 16, 2008 permit)

28. **Maintenance/Operating Procedures** - The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment and process equipment which affect such emissions:
- a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.
  - b. Maintain an inventory of spare parts.

- c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.
- d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request  
 (9 VAC 5-80-110 and Condition 18 of July 16, 2008 Permit)

### Insignificant Emission Units

29. The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
IA1	Used Oil Sump	5-80-720 C.	N/A	129 gallons
IA2	1,058-gal Used Oil/Water Sump	5-80-720 B.	VOCs (< 5 ton/yr)	NA
IA3	1,057-gal Wastewater/Oil Separator (#10)	5-80-720 B.	VOCs (< 5 ton/yr)	NA
IA4	12,600-gal Wastewater Storage Tank (#11)	5-80-720 B.	VOCs (< 5 ton/yr)	NA
IA5	4,200-gal Used Oil Storage Tank (#12)	5-80-720 B.	VOCs (< 5 ton/yr)	NA
IA6	12,600-gal Natural Gas Condensate Storage Tank	5-80-720.B	VOCs (< 5 ton/yr)	NA
IA7	Lube Oil Storage Tank	5-80-720 C.	N/A	226 gallons
IA8	Natural Gas Condensate Storage Tank (#39)	5-80-720 B.	VOCs (< 5 ton/yr)	NA
IA9	Parts Washer	5-80-720 B.	VOCs (< 5 ton/yr)	NA
IA10	M & R Natural Gas Condensate Drip Storage Tank	5-80-720 B.	VOCs (< 5 ton/yr)	NA
IA11	Natural Gas Starter for M/L 1 Turbine	5-80-720 B.	VOCs (< 5 ton/yr)	NA
IA12	Natural Gas Starter for M/L 2 Turbine	5-80-720 B.	VOCs (< 5 ton/yr)	NA
IA13	8.85 MMBtu/hr M&R Natural Gas Odorant System Maintenance Flare	5-80-720.C	N/A	< 10 MMBtu/hr Natural gas-fired

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

**Permit Shield & Inapplicable Requirements**

30. Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

<b>Citation</b>	<b>Title of Citation</b>	<b>Description of Applicability</b>
40 CFR 63 Subpart YYYY	National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines	Compressor Station No. 167 is not a major HAP source and is not subject to this MACT per 40 CFR 63.6085.
40 CFR 63 Subpart HH	National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities	Compressor Station No. 167 is not located at a natural gas production site, does not include glycol dehydration, or include other affected units per 40 CFR 63.760(d).
40 CFR 63 Subpart HHH	National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities	Compressor Station No. 167 does not include glycol dehydration facilities and is not subject to this subpart's requirements per 40 CFR 63.1270(c).
40 CFR 63 Subpart EEEE (OLD MACT)	National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)	Compressor Station No. 167 is not a major HAP source, meets the definition of "facility" per 40 CFR 63.1271 (MACT Subpart HHH), and is not subject to the OLD MACT per 40 CFR 63.2334(c)(2).
40 CFR 60 Subpart KKKK	National Standards of Performance (NSPS) for Stationary Combustion Turbines	Compressor Station No. 167's combustion turbines were manufactured prior to February 18, 2005, have not been subsequently modified or reconstructed; and are not subject to this subpart's requirements per 40 CFR 60.4300.
40 CFR 60 Subpart Kb	National Standards of Performance (NSPS) for Volatile Organic Liquid Storage Vessels	Compressor Station No. 167's volatile organic liquid storage vessels have a capacity of less than 75m <sup>3</sup> and are not subject to this subpart's requirements per 40 CFR 60.110b(a).
40 CFR 64	Compliance Assurance Monitoring	40 CFR 64.2(a); M/L 1 & 2 do not have add-on air pollution control devices as defined in 40 CFR 64.1.
40 CFR 68	Chemical Accident Prevention Provision	Compressor Station 167 is regulated under 40 CFR 192, not a stationary source per 40 CFR 68.3.
CAA Section 112(r)	Risk Management Plans	Compressor Station 167 is regulated under 40 CFR 192, not a stationary source per 40 CFR 68.3.

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by: (i) the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.

(9 VAC 5-80-140)

## General Conditions

31. **General Conditions - Federal Enforceability** - All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.  
(9 VAC 5-80-110 N)
32. **General Conditions - Permit Expiration** - This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9 VAC 5-80-80, the right of the facility to operate shall be terminated upon permit expiration.  
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
33. **General Conditions - Permit Expiration** - The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.  
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
34. **General Conditions - Permit Expiration** - If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.  
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
35. **General Conditions - Permit Expiration** - No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.  
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
36. **General Conditions - Permit Expiration** - If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.  
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
37. **General Conditions - Permit Expiration** - The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.  
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)



38. **General Conditions -Recordkeeping and Reporting** - All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:

- a. The date, place as defined in the permit, and time of sampling or measurements;
- b. The date(s) analyses were performed;
- c. The company or entity that performed the analyses;
- d. The analytical techniques or methods used;
- e. The results of such analyses; and
- f. The operating conditions existing at the time of sampling or measurement.

(9 VAC 5-80-110 F)

39. **General Conditions -Recordkeeping and Reporting** - Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.  
(9 VAC 5-80-110 F)

40. **General Conditions -Recordkeeping and Reporting** - The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than **March 1 and September 1** of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

- a. The time period included in the report. The time periods to be addressed are **January 1 to June 30** and **July 1 to December 31**; and
- b. All deviations from permit requirements. For purpose of this permit, deviations include, but are not limited to:
  - i. Exceedance of emissions limitations or operational restrictions;
  - ii. Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or Compliance Assurance Monitoring (CAM) which indicates an exceedance of emission limitations or operational restrictions; or,
  - iii. Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.

- c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semi-annual reporting period."

(9 VAC 5-80-110 F)

- 41. **General Conditions - Annual Compliance Certification** - Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than **March 1** each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices for the period ending December 31. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. The permittee shall maintain a copy of the certification for five (5) years after submittal of the certification. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

- a. The time period included in the certification. The time period to be addressed is **January 1 to December 31**;
- b. The identification of each term or condition of the permit that is the basis of the certification;
- c. The compliance status;
- d. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance;
- e. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period;
- f. Such other facts as the permit may require to determine the compliance status of the source; and
- g. One copy of the annual compliance certification shall be submitted to EPA in electronic format only. The certification document should be sent to the following electronic mailing address:

R3\_APD\_Permits@epa.gov

(9 VAC 5-80-110 K.5)

42. **General Conditions - Permit Deviation Reporting** - The permittee shall notify the Director, Blue Ridge Regional Office within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to Condition 41 of this permit.  
(9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)
43. **General Conditions - Failure/Malfunction Reporting** - In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours after the malfunction is discovered, notify the Director, Blue Ridge Regional Office by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within 14 days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director, Blue Ridge Regional Office.  
(9 VAC 5-20-180 C)
44. **General Conditions - Severability** - The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.  
(9 VAC 5-80-110 G.1)
45. **General Conditions - Duty to Comply** - The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is ground for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.  
(9 VAC 5-80-110 G.2)
46. **General Conditions - Need to Halt or Reduce Activity not a Defense** - It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.  
(9 VAC 5-80-110 G.3)

47. **General Conditions - Permit Modification** - A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9 VAC 5-80-50, 9 VAC 5-80-1100, 9 VAC 5-80-1605, or 9 VAC 5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.  
(9 VAC 5-80-190 and 9 VAC 5-80-260)
48. **General Conditions - Property Rights** - The permit does not convey any property rights of any sort, or any exclusive privilege.  
(9 VAC 5-80-110 G.5)
49. **General Conditions - Duty to Submit Information** - The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.  
(9 VAC 5-80-110 G.6)
50. **General Conditions - Duty to Submit Information** - Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.  
(9 VAC 5-80-110 K.1)
51. **General Conditions - Duty to Pay Permit Fees** - The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-300 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-350 in addition to an annual permit maintenance fee consistent with the requirements of 9 VAC 5-80-2310 through 9 VAC 5-80-2350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by April 15 of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department. The amount of the annual permit maintenance fee shall be the largest applicable base permit maintenance fee amount from Table 8-11A in 9 VAC 5-80-2340, adjusted annually by the change in the Consumer Price Index.  
(9 VAC 5-80-110 H, 9 VAC 5-80-340 C and 9 VAC 5-80-2340 B)
52. **General Conditions - Fugitive Dust Emission Standards** - During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

- a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
- b. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
- c. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or similar operations;
- d. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
- e. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-80-110, 9 VAC 5-50-90, and Condition 3 of July 16, 2008 permit)

53. **General Conditions - Startup, Shutdown, and Malfunction** - At all times, including periods of startup, shutdown, and soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.  
(9 VAC 5-50-20 E)
54. **General Conditions - Alternative Operating Scenarios** - Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1.  
(9 VAC 5-80-110 J)
55. **General Conditions - Inspection and Entry Requirements** - The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:
  - a. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.

- b. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
- c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
- d. Sample or monitor at reasonable times' substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-110 K.2)

56. **General Conditions - Reopening For Cause** - The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F. The conditions for reopening a permit are as follows:

- a. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- b. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
- c. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.

(9 VAC 5-80-110 L)

57. **General Conditions - Permit Availability** - Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.

(9 VAC 5-80-150 E)

58. **General Conditions - Transfer of Permits** - No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.

(9 VAC 5-80-160)

59. **General Conditions - Transfer of Permits** - In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.  
(9 VAC 5-80-160)
60. **General Conditions - Transfer of Permits** - In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.  
(9 VAC 5-80-160)
61. **General Conditions - Malfunction as an Affirmative Defense** - A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements stated in Condition 62 are met.  
(9 VAC 5-80-250)
62. **General Conditions - Malfunction as an Affirmative Defense** - The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:
- a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
  - b. The permitted facility was at the time being properly operated.
  - c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.
  - d. The permittee notified the Board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9 VAC 5-80-110 F.2.b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9 VAC 5-20-180 C.
- (9 VAC 5-80-250)
63. **General Conditions - Malfunction as an Affirmative Defense** - In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof.  
(9 VAC 5-80-250)

64. **General Conditions - Malfunction as an Affirmative Defense** - The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.  
(9 VAC 5-80-250)
65. **General Conditions - Permit Revocation or Termination for Cause** - A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any grounds for revocation or termination or for any other violations of these regulations.  
(9 VAC 5-80-190 C and 9 VAC 5-80-260)
66. **General Conditions - Duty to Supplement or Correct Application** - Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.  
(9 VAC 5-80-80 E)
67. **General Conditions - Stratospheric Ozone Protection** - If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.  
(40 CFR Part 82, Subparts A-F)
68. **General Conditions - Asbestos Requirements** - The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following: Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150).  
(9 VAC 5-60-70 and 9 VAC 5-80-110 A.1)
69. **General Conditions - Accidental Release Prevention** - If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.  
(40 CFR Part 68)



70. **General Conditions - Changes to Permits for Emissions Trading** - No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.  
(9 VAC 5-80-110 I)
71. **General Conditions - Emissions Trading** - Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:
- a. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.
  - b. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
  - c. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.
- (9 VAC 5-80-110 I)